

STEREO MOC Status Report
Time Period: 2012:107 - 2012:113

STEREO Ahead (STA) Status:

1. The following Ground System anomalies occurred during this reporting period:

- On day 108, during the DSS-15 support, AOS was delayed 2.7 hours due to loss of electrical power to the station. After power was restored, telemetry lock was established at 1531z. The planned momentum dump for this support was moved to DOY 109, with ignition at 1600z, as there was insufficient time to conduct it. SSR pointers were reset to minimize science data loss. This anomaly resulted in the loss 2.7 hours of commanding, tracking, and real-time telemetry data and the SSR data loss listed below. See DR# G112589 for more information.

IMPACT reached 95% full:

0.3 hours beginning at 109-1321z
1.0 hours beginning at 112-1136z
5.9 hours beginning at 113-0727z

SWAVES reached 100% full:

1.5 hours beginning at 109-1205z
4.8 hours beginning at 112-0032z
0.1 hours beginning at 112-0526z
2.1 hours beginning at 112-1031z
9.1 hours beginning at 113-0415z

- On day 110, for the DSS-15 support, telemetry lock was lost beginning at 1821z due to the antenna brakes being set inadvertently. The brakes were reset and telemetry lock was re-established at 1831z. This anomaly resulted in the loss of 46 minutes of SSR data for each instrument. See DR# G112598 for more information.
- On day 111, during the DSS-63 support, turbo decoder lock was lost intermittently beginning at 0811z through 0823z. This anomaly resulted in the loss of 75 frames of SSR data. See DR# N108041 for more information.
- On day 113, during the DSS-34 support, turbo decoder lock was lost briefly at 2303z. This anomaly resulted in the loss of one frame of SSR data. See DR# N108044 for more information.

2. The following spacecraft/instrument events occurred during this week:

- On day 107, a flight software patch was loaded to the IMPACT LET instrument to correct an error in the total-energy calculation.
- On day 109, the 46th momentum dump was successfully executed at 1600Z, which imparted a delta V of 0.1011 m/sec.
- The average daily SSR playback volume for Ahead was 4.2 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies occurred during this reporting period:

- On day 112, during the DSS-15 support, turbo decoder lock was lost intermittently beginning at 0338z. This anomaly resulted in the loss of 167 frames of SSR data. See DR# N108045 for more information.
- On day 112, during the DSS-55 support, turbo decoder lock was lost briefly at 1832z. This anomaly resulted in the loss of one frame of SSR data. See DR# N108046 for more information.
- On day 113, during the DSS-65 support, turbo decoder lock was lost briefly beginning at 1210z and again at 1347z. This anomaly resulted in the loss of 64 frames of SSR data. See DR# N108047 for more information.
- On day 113, during the DSS-14 support, AOS was delayed 2 minutes due to telemetry receiver anomaly at the station. After another downlink channel was added, telemetry lock was established at 1902z. This anomaly resulted in the loss 2 minutes of real-time telemetry data and the SSR data was recovered. See DR# G112609 for more information.

2. The following spacecraft/instrument events occurred during this week:

- On day 109, a flight software patch was loaded to the IMPACT LET instrument to correct an error in the total-energy calculation.
- The average daily SSR playback volume for Behind was 4.6 Gbits during this week.